Figures

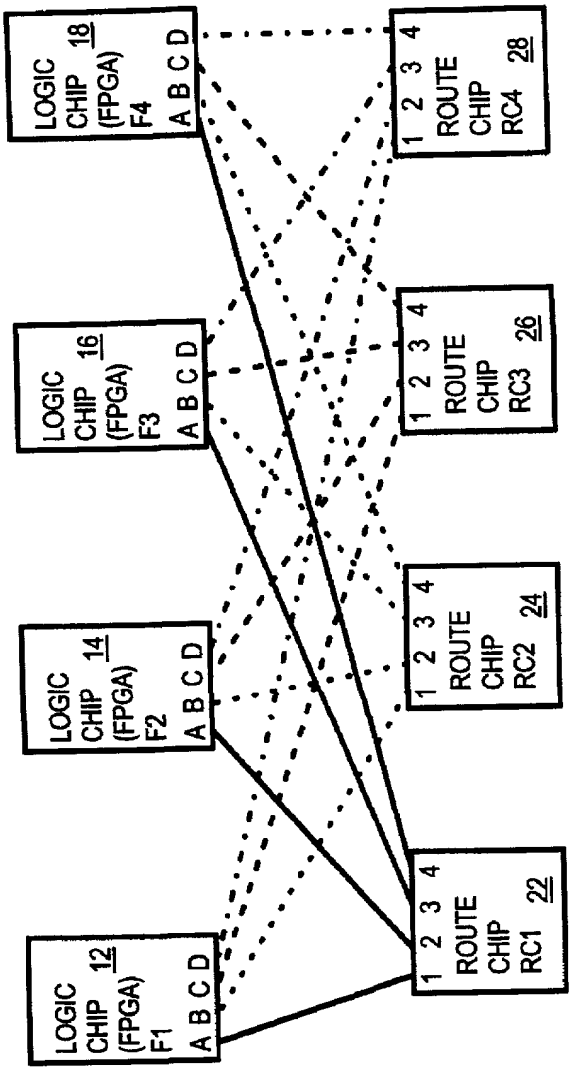

FIG. 1

PRIOR ART

	PIN A	PIN B	PIN C	PIN D
FPGA - F1	RC1	RC2	RC3	RC4
FPGA - F2	RC1	RC2	RC3	RC4
FPGA - F3	RC1	RC2	RC3	RC4
FPGA - F4	RC1	RC2	RC3	RC4

FIG. 2

PRIOR ART

	PIN A	PIN B	PIN C	PIN D	
FPGA - F1		X2-RC2	X3-RC3		X5 X6
FPGA - F2	X1-RC1			X4-RC4	X5 X6
FPGA - F3	X1-RC1	X2-RC2	X3-RC3	X4-RC4	
FPGA - F4					

FIG. 3

PRIOR ART

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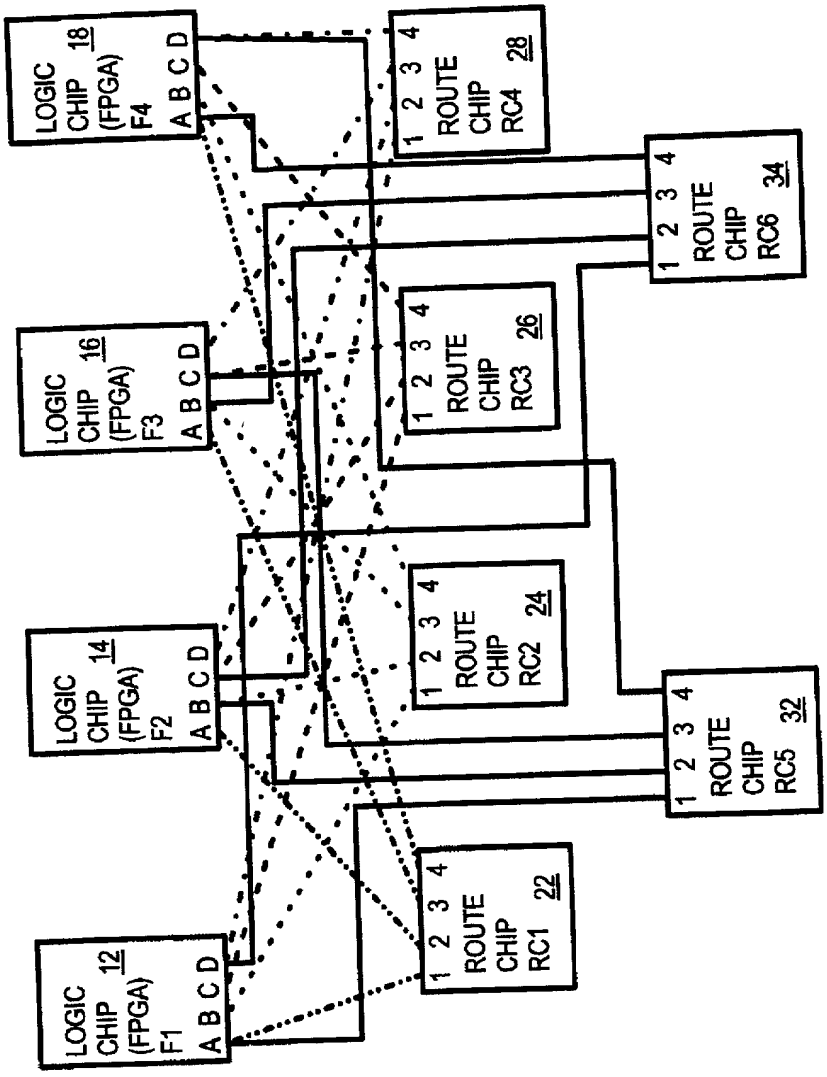


FIG. 4

TOSHIBA CONFIDENTIAL

	PIN A	PIN B	PIN C	PIN D
FPGA - F1	RC1	RC2	RC3	RC4
FPGA - F2	RC1	RC2	RC3	RC4
FPGA - F3	RC1	RC2	RC3	RC4
FPGA - F4	RC1	RC2	RC3	RC4

FIG. 5A

	PIN A	PIN B	PIN C	PIN D
FPGA - F1	RC5			RC6
FPGA - F2		RC5	RC6	
FPGA - F3		RC6	RC5	
FPGA - F4	RC6			RC5

FIG. 5B

	PIN A	PIN B	PIN C	PIN D
FPGA - F1	X5	X2-RC2	X3-RC3	X6
FPGA - F2	X1-RC1	X5	X6	X4-RC4
FPGA - F3	X1-RC1	X2-RC2	X3-RC3	X4-RC4
FPGA - F4				

FIG. 6

X1: F1-F2
X2: F1-F3
X3: F3-F4
X4: F1-F4
X5: F1-F2
X6: F2-F3
X7: F2-F3

	PIN A	PIN B	PIN C	PIN D	
FPGA - F1	X1	X2	X5	X4	
FPGA - F2	X1		X5	X6	X7
FPGA - F3	X3	X2		X6	X7
FPGA - F4	X3			X4	

FIG. 7

PRIOR ART

	PIN A	PIN B	PIN C	PIN D
FPGA - F1	X1	X2	X5	X4
FPGA - F2	X1	X7	X5	X6
FPGA - F3	X3	X2	X7	X6
FPGA - F4	X3			X4

FIG. 8

X1: F2-F3
X2: F2-F3
X3: F1-F2
X4: F1-F3
X5: F3-F4
X6: F1-F4
X7: F1-F2

	PIN A	PIN B	PIN C	PIN D	
FPGA - F1		X4	X3	X6	X7
FPGA - F2	X2		X3	X1	X7
FPGA - F3	X2	X4	X5	X1	
FPGA - F4			X5	X6	

FIG. 9

PRIOR ART

	PIN A	PIN B	PIN C	PIN D
FPGA - F1	X7	X4	X3	X6
FPGA - F2	X2	X7	X3	X1
FPGA - F3	X2	X4	X5	X1
FPGA - F4			X5	X6

FIG. 10

ORIGINAL	SHUFFLED
X1: F1-F3	X1: F1-F3
X2: F1-F4	X2: F1-F4
X3: F2-F3	X3: F1-F3
X4: F3-F4	X4: F2-F3
X5: F2-F3	X5: F3-F4
X6: F1-F4	X6: F1-F4

	PIN A	PIN B	PIN C	PIN D	
FPGA - F1		X2	X1	X3	X6
FPGA - F2		X4			
FPGA - F3	X5	X4	X1	X3	
FPGA - F4	X5	X2			X6

FIG. 11

PRIOR ART

	PIN A	PIN B	PIN C	PIN D
FPGA - F1	X6	X2	X1	X3
FPGA - F2		X4		
FPGA - F3	X5	X4	X1	X3
FPGA - F4	X5	X2		X6

FIG. 12

X1: F4-F5
X2: F4-F5
X3: F2-F5
X4: F4-F5
X5: F4-F5
X6: F2-F5
X7: F2-F5
X8: F2-F5
X9: F2-F4
X10: F2-F4
X11: F2-F4
X12: F2-F4

FIG. 13

PRIOR ART

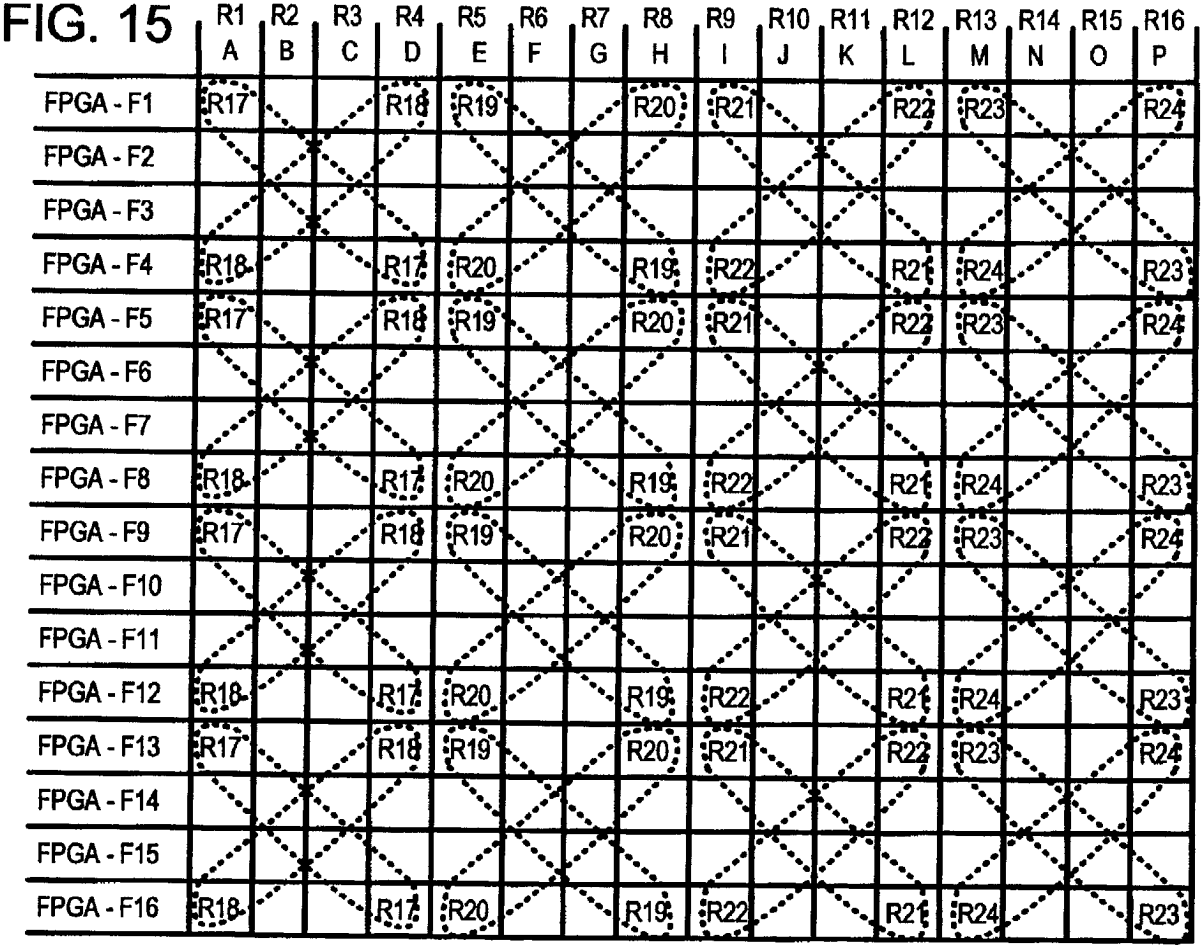
	A	B	C	D	E	F	G	H	
FPGA - F1									
FPGA - F2					X3	X6	X7	X8	X9,10,11,12
FPGA - F3									
FPGA - F4	X1	X2	X5	X4					X9,10,11,12
FPGA - F5	X1	X2	X5	X4	X3	X6	X7	X8	
FPGA - F6									
FPGA - F7									
FPGA - F8									

X1: F4-F5
X2: F4-F5
X3: F2-F5
X4: F4-F5
X5: F4-F5
X6: F2-F5
X7: F2-F5
X8: F2-F5
X9: F2-F4
X10: F2-F4
X11: F2-F4
X12: F2-F4

FIG. 14

	A	B	C	D	E	F	G	H
FPGA - F1								
FPGA - F2	X7	X9	X10	X3	X6	X11	X12	X8
FPGA - F3								
FPGA - F4	X10	X2	X4	X9	X12	X5	X1	X11
FPGA - F5	X7	X2	X4	X3	X6	X5	X1	X8
FPGA - F6								
FPGA - F7								
FPGA - F8								

FIG. 15


R1 A
R2 B
R3 C
R4 D
R5 E
R6 F
R7 G
R8 H
R9 I
R10 J
R11 K
R12 L
R13 M
R14 N
R15 O
R16 P
FPGA - F1
FPGA - F2
FPGA - F3
FPGA - F4
FPGA - F5
FPGA - F6
FPGA - F7
FPGA - F8
FPGA - F9
FPGA - F10
FPGA - F11
FPGA - F12
FPGA - F13
FPGA - F14
FPGA - F15
FPGA - F16
R17
R18
R19
R20
R21
R22
R23
R24